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 TI Powder coatings, their preparation and their use on metals
 IN Hilger, Christopher; Woltering, Joachim; Radamacher, Josef
 PA BASF Lacke & Farben AG, Germany
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W: BR, CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRAI DE 1993-4330404 19930908

AB The coatings are based on ~~carboxyl~~ group-contg.

polyester (acid no. 10-150 mg KOH/g) 35.0-92.2 low mol.

wt. epoxy group-contg. hardener 0.8-20.13, epoxy group-contg.

polyacrylate

resin (epoxy equiv. wt. 350-2000) 3.7-49.3 and di- and/or polycarboxylic acid/anhydride 0.5-13.6%. The coatings permit metal forming operations after baking. Thus, a Me methacrylate-glycidyl methacrylate- Bu acrylate-styrene copolymer was prep'd. and formulated with Uralac P5000 (carboxyl-contg. polyester), triglycidyl isocyanurate, dodecanedioic acid, and additives, applied as a powder to steel, and baked at 205.degree. to provide a shiny coating.

ST powder coating polyacrylate polyester

IT Alkyd resins

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymers with (meth)acrylates and epoxy compds.; powder coatings for metals)

IT Polyesters, uses

RL: TEM (Technical or engineered material use); USES (Uses)
 (powder coatings for metals)

IT Acrylic polymers, uses

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (glycidyl group-contg., powder coatings for metals)

IT 80-62-6DP, Methyl methacrylate, polymers with (meth)acrylates, epoxy compds., and alkyd resins 100-42-5DP, Styrene, polymers with (meth)acrylates, epoxy compds., and alkyd resins **106-91-2DP**,

Glycidyl methacrylate, polymers with (meth)acrylates, epoxy compds., and alkyd resins 141-32-2DP, Butyl acrylate, polymers with (meth)acrylates, epoxy compds., and alkyd resins 693-23-2DP, Dodecanedioic acid,

polymers

with (meth)acrylates, epoxy compds., and alkyd resins **2451-62-9DP**, Triglycidyl isocyanurate, polymers with (meth)acrylates and alkyd

resins

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (powder coatings for metals)

powder

3.7-49.3